POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST (REVOCATION OF PRIOR POWERS)

Director of the U.S. Patent Office P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Hitachi, Ltd., as assignee of record of the entire interest of the application identified in the attached Appendix as per the Assignment corresponding to said application, recordation date and location of said Assignment being indicated in the attached Appendix, hereby revoke all powers of attorneys previously given and hereby appoint the following attorneys to prosecute and transact all business in the Patent and Trademark Office connected therewith:

John R. Mattingly, Reg. No. 30,293 Shrinath Malur, Reg. No. 34,663; and the attorneys/agents associated with **Customer No. 24956**.

Send all correspondence to the address associated with Customer No. 24956:

MATTINGLY & MALUR, P.C. 1800 DIAGONAL ROAD, SUITE 370 ALEXANDRIA, VIRGINIA 22314 (703) 684-1120

The undersigned submits that the undersigned has power to act on behalf of the assignee, the evidentiary documents have been reviewed and certifies that, to the best of assignee's knowledge and belief, title is in the assignee seeking to take the action.

Executed this $/3\pi h$ day of Ju/y, 2009.

HITACHI, LTD.

Kensuke Oka

Managing Director, Intellectual Property Group

(Authorized Signing Officer)

APPENDIX A

| | | | FILING | RECORDATION | |
|----------------|--------------|------------|-----------|-------------|-------------|
| ATTY. DKT. NO. | INVENTOR | SERIAL NO. | DATE | DATE | REEL/FRAME |
| 500.35346X00 | Y. YAMAMOTO | 08/833,347 | 4-Apr-97 | 4-Apr-97 | 008524/0791 |
| 500.35346CX1 | Y. YAMAMOTO | 09/335,175 | 17-Jun-99 | 4-Apr-97 | 008524/0791 |
| 500.35346CX2 | Y. YAMAMOTO | 10/112,865 | 2-Apr-02 | 4-Apr-97 | 008524/0791 |
| 500.35346CX2 | Y. YAMAMOTO | 10/684,453 | 15-Oct-03 | 4-Apr-97 | 008524/0791 |
| 500.35346CX4 | Y. YAMAMOTO | 11/142,458 | 2-Jun-05 | 4-Apr-97 | 008524/0791 |
| 500.35346CX5 | Y. YAMAMOTO | 11/405,544 | 18-Apr-06 | 4-Apr-97 | 008524/0791 |
| 500.36547CX1 | Y. YAMAMOTO | 09/149,666 | 9-Sep-98 | 9-Sep-98 | 009450/0398 |
| 500.36547CX2 | Y. YAMAMOTO | 10/139,248 | 7-May-02 | 9-Sep-98 | 009450/0398 |
| 500.36547CC3 | Y. YAMAMOTO | 10/614,802 | 9-Jul-03 | 9-Sep-98 | 009450/0398 |
| 500.36547CC4 | Y. YAMAMOTO | 10/831,138 | 26-Арг-04 | 9-Sep-98 | 009450/0398 |
| 500.36547CC5 | Y. YAMAMOTO | 11/583,007 | 19-Oct-06 | 9-Sep-98 | 009450/0398 |
| 501.37526X00 | K. SAKAMOTO | 09/392,623 | 9-Sep-99 | 9-Sep-99 | 010237/0146 |
| 501.37526CX1 | K. SAKAMOTO | 10/614,134 | 8-Jul-03 | 9-Sep-99 | 010237/0146 |
| 501.37526CX2 | K. SAKAMOTO | 11/828,729 | 26-Jul-07 | 9-Sep-99 | 010237/0146 |
| 500.37485X00 | K. HAKAMATA | 09/383,370 | 26-Aug-99 | 26-Aug-99 | 010210/0606 |
| 500.37485CX1 | K. HAKAMATA | 10/412,388 | 14-Арг-03 | 26-Aug-99 | 010210/0606 |
| 500.37485CX2 | K. HAKAMATA | 10/412,232 | 14-Арг-03 | 26-Aug-99 | 010210/0606 |
| 500.37485CX3 | K. HAKAMATA | 11/182,952 | 18-Jul-05 | 26-Aug-99 | 010210/0606 |
| 500.37485CX4 | K. HAKAMATA | 11/407,243 | 20-Apr-06 | 26-Aug-99 | 010210/0606 |
| 520.38161X00 | K. ARUGA | 09/495,868 | 2-Feb-00 | 2-Feb-00 | 010540/0059 |
| 520.38161CX1 | K. ARUGA | 10/337,397 | 7-Jan-03 | 2-Feb-00 | 010540/0059 |
| 520.38161CX2 | K. ARUGA | 10/615,907 | 10-Jul-03 | 2-Feb-00 | 010540/0059 |
| 520.38161CX3 | K. ARUGA | 10/632,855 | 4-Aug-03 | 2-Feb-00 | 010540/0059 |
| 520.38161CX4 | K. ARUGA | 10/933,387 | 3-Sep-04 | 2-Feb-00 | 010540/0059 |
| 520.38833X00 | K. MIKI | 09/629,706 | 31-Jul-00 | 31-Jul-00 | 010989/0044 |
| 520.38833CX1 | K. MIKI | 10/894,058 | 20-Jul-04 | 31-Jul-00 | 010989/0044 |
| 500.39520X00 | T. KAMANO | 09/764,286 | 19-Jan-01 | 17-Apr-01 | 011708/0095 |
| 500.39520CX1 | T. KAMANO | 10/425,915 | 30-Apr-03 | 17-Apr-01 | 011708/0095 |
| 500.39520CX2 | T. KAMANO | 10/828,299 | 21-Apr-04 | 17-Apr-01 | 011708/0095 |
| 500.39520CX3 | T. KAMANO | 11/495,756 | 31-Jul-06 | 17-Apr-01 | 011708/0095 |
| 500.39520CX4 | T. KAMANO | 11/892,985 | 29-Aug-07 | 17-Apr-01 | 011708/0095 |
| 500.39944X00 | Y. MATSUMOTO | 09/820,947 | 30-Mar-01 | 18-Jun-01 | 011900/0852 |
| 500.39944CX1 | Y. MATSUMOTO | 11/014,887 | 20-Dec-04 | 18-Jun-01 | 011900/0852 |
| 500.39944CX2 | Y. MATSUMOTO | 12/155,411 | 4-Jun-08 | 18-Jun-01 | 011900/0852 |
| 500.40494X00 | Y. KANO | 09/931,253 | 17-Aug-01 | 1-Nov-01 | 012293/0701 |
| 500.40494CX1 | Y. KANO | 10/782,787 | 23-Feb-04 | 1-Nov-01 | 012293/0701 |
| 500.40494CC2 | Y. KANO | 10/991,421 | 19-Nov-04 | 1-Nov-01 | 012293/0701 |
| 500.40494CC3 | Y. KANO | 12/245,122 | 3-Oct-08 | 1-Nov-01 | 012293/0701 |
| 500.41208X00 | R. ITO | 10/076,553 | 19-Feb-02 | 19-Feb-02 | 012603/0631 |
| 500.41208CX1 | R. ITO | 10/902,794 | 2-Aug-04 | 19-Feb-02 | 012603/0631 |
| 500.41208CX2 | R. ITO | 10/902,795 | 2-Aug-04 | 19-Feb-02 | 012603/0631 |
| 500.41208CX3 | R. ITO | 11/407,978 | 21-Арг-06 | 19-Feb-02 | 012603/0631 |
| 500.41227X00 | Y. TAKEDA | 10/081,535 | 25-Feb-02 | 25-Feb-02 | 012633/0883 |
| 500.41227CX1 | Y. TAKEDA | 12/371,950 | 17-Feb-09 | 25-Feb-02 | 012633/0883 |
| 500.42212X00 | T. YANO | 10/287,676 | 5-Nov-02 | 8-Jan-03 | 013646/0948 |
| 500.42212VX1 | T. YANO | 11/812,693 | 21-Jun-07 | 8-Jan-03 | 013646/0948 |
| 500.42212CV2 | T. YANO | 11/896,082 | 30-Aug-07 | 8-Jan-03 | 013646/0948 |
| 500.42584X00 | N. MORISHITA | 10/378,644 | 5-Mar-03 | 5-Jun-03 | 014141/0108 |

APPENDIX A

| 0 | 1 | 1 | FILING | RECORDATION | |
|----------------|-------------------|------------|---|-------------|-------------|
| ATTY. DKT. NO. | INVENTOR | SERIAL NO. | DATE | DATE | REEL/FRAME |
| 500.42584CX1 | N. MORISHITA | 11/182,955 | 18-Jul-05 | 5-Jun-03 | 014141/0108 |
| 500.42584CX2 | N. MORISHITA | 11/517,380 | 8-Sep-06 | | |
| 500.42584CX3 | N. MORISHITA | 12/007,724 | 15-Jan-08 | 5-Jun-03 | 014141/0108 |
| 500.42585X00 | K. KITAMURA | 10/382,918 | 7-Mar-03 | 4-Jun-03 | 014140/0037 |
| 500.42585VX1 | K. KITAMURA | 12/222,144 | 4-Aug-08 | 4-Jun-03 | 014140/0037 |
| 500.42704X00 | I. YAGISAWA | 10/419,096 | 21-Apr-03 | 4-Aug-03 | 014350/0497 |
| 500.42704CX1 | I. YAGISAWA | 10/962,623 | 13-Oct-04 | 4-Aug-03 | 014350/0497 |
| 500.42704CX2 | I. YAGISAWA | 10/962,599 | 13-Oct-04 | 4-Aug-03 | 014350/0497 |
| 500.42704CX3 | I. YAGISAWA | 10/988,495 | 16-Nov-04 | 4-Aug-03 | 014350/0497 |
| 500.42704XC4 | I. YAGISAWA | 10/988,496 | 16-Nov-04 | 4-Aug-03 | 014350/0497 |
| 500.42704CX5 | I. YAGISAWA | 10/988,704 | 16-Nov-04 | 4-Aug-03 | 014350/0497 |
| 520.42704CX6 | I. YAGISAWA | 10/988,564 | 16-Nov-04 | 4-Aug-03 | 014350/0497 |
| 500.42704CX7 | I. YAGISAWA | 11/785,780 | 20-Apr-07 | 4-Aug-03 | 014350/0497 |
| 500.42704CX8 | I. YAGISAWA | 12/076,141 | 14-Mar-08 | | |
| 500.42704CX0 | T. SAKUMA | 10/634,759 | 6-Aug-03 | 4-Aug-03 | 014350/0497 |
| 501.43017X00 | T. YANO | 10/636,696 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | 14-Nov-03 | 014706/0168 |
| 501.43017CX1 | T. YANO | 12/068,681 | 8-Aug-03 | 8-Aug-03 | 014382/0304 |
| 501.43042X00 | M. YAMAMOTO | | 11-Feb-08 | 8-Aug-03 | 014382/0304 |
| 301.43042700 | IVI. TAIVIAIVIOTO | 10/659,362 | 11-Sep-03 | 11-Sep-03 | 014492/0418 |
| E04 420 40 DV4 | M MANAGEO | 44/000 005 | 70.11.00 | 28-Feb-06 | 017359/0963 |
| 501.43042PX1 | M. YAMAMOTO | 11/288,205 | 29-Nov-05 | 11-Sep-03 | 014492/0418 |
| 504 400400D0 | MANAGEO TO | 44407 700 | | 28-Feb-06 | 017359/0963 |
| 501.43042CP2 | M. YAMAMOTO | 11/437,700 | 22-May-06 | 11-Sep-03 | 014492/0418 |
| F04 400 40 OD0 | NA MARANTOTO | 10/040 470 | - 1 too | 28-Feb-06 | 017359/0963 |
| 501.43042CP3 | M. YAMAMOTO | 12/216,472 | 7-Jul-08 | 11-Sep-03 | 014492/0418 |
| | T 041411144 | 101010 000 | | 28-Feb-06 | 017359/0963 |
| 500.43055X00 | T. SAKUMA | 10/642,685 | 19-Aug-03 | 26-Nov-03 | 014745/0968 |
| 500.43096X00 | N. KAWAMURA | 10/650,842 | 29-Aug-03 | 25-Nov-03 | 014745/0970 |
| 500.43096CX1 | N. KAWAMURA | 11/227,180 | 16-Sep-05 | 25-Nov-03 | 014745/0970 |
| 500.43116X00 | K. SUZUKI | 10/659,398 | 11-Sep-03 | 5-Dec-03 | 014771/0461 |
| 500.43116CX1 | K. SUZUKI | 11/056,007 | 14-Feb-05 | 5-Dec-03 | 014771/0461 |
| 500.43116CX2 | K. SUZUKI | 11/056,006 | 14-Feb-05 | 5-Dec-03 | 014771/0461 |
| 500.43116CX3 | K. SUZUKI | 11/056,005 | 14-Feb-05 | 5-Dec-03 | 014771/0461 |
| 500.43116CX4 | K. SUZUKI | 11/055,994 | 14-Feb-05 | 5-Dec-03 | 014771/0461 |
| 500.43116CX5 | K. SUZUKI | 11/056,002 | 14-Feb-05 | 5-Dec-03 | 014771/0461 |
| 500.43116CX6 | K. SUZUKI | 11/056,001 | 14-Feb-05 | 5-Dec-03 | 014771/0461 |
| 500.43116CX7 | K. SUZUKI | 11/055,968 | 14-Feb-05 | 5-Dec-03 | 014771/0461 |
| 500.43116CX8 | K. SUZUKI | 12/370,846 | 13-Feb-09 | 5-Dec-03 | 014771/0461 |
| 500.43322X00 | A. SHIMADA | 10/729,925 | 9-Dec-03 | 11-Mar-04 | 015069/0626 |
| 500.43322CX1 | A. SHIMADA | 11/057,756 | 15-Feb-05 | 11-Mar-04 | 015069/0626 |
| 500.43322CX2 | A. SHIMADA | 11/057,755 | 15-Feb-05 | 11-Mar-04 | 015069/0626 |
| 500.43322CX3 | A. SHIMADA | 11/057,754 | 15-Feb-05 | 11-Mar-04 | 015069/0626 |
| 500.43444X00 | M. SONE | 10/765,165 | 28-Jan-04 | 9-Aug-04 | 015669/0206 |
| 500.43444CX1 | M. SONE | 11/194,673 | 2-Aug-05 | 9-Aug-04 | 015669/0206 |
| 500.43444CX2 | M. SONE | 11/194,674 | 2-Aug-05 | 9-Aug-04 | 015669/0206 |
| 500.43444CX3 | M. SONE | 11/822,306 | 5-Jul-07 | 9-Aug-04 | 015669/0206 |
| 500.43451X00 | A. KANO | 10/766,015 | 29-Jan-04 | 20-Jul-04 | 015587/0497 |
| 500.43451CX1 | A. KANO | 11/024,644 | 30-Dec-04 | 20-Jul-04 | 015587/0497 |
| 500.43451CX2 | A. KANO | 11/024,627 | 30-Dec-04 | 20-Jul-04 | 015587/0497 |

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| | | | FILING | RECORDATION | |
|----------------|----------------|--------------|-----------|-------------|-------------|
| ATTY. DKT. NO. | INVENTOR | SERIAL NO. | DATE | DATE | REEL/FRAME |
| TMI-5827-03 | A. KANO | 11/024,626 | 30-Dec-04 | 20-Jul-04 | |
| SUN-5827-04 | A. KANO | 11/025,075 | 30-Dec-04 | 20-Jul-04 | 015587/0497 |
| TMI-5827-05 | A. KANO | 11.723,443 | 20-Mar-07 | 20-Jul-04 | 015587/0497 |
| 566.43577X00 | N. IKEGAYA | 10/788,453 | 1-Mar-04 | 5-Jun-04 | 015422/0391 |
| 566.43577CX1 | N. IKEGAYA | 11/207,774 | 22-Aug-05 | 5-Jun-04 | 015422/0391 |
| 566.43577CX2 | N. IKEGAYA | 12/149,292 | 30-Apr-08 | 5-Jun-04 | 015422/0391 |
| 500.43776X00 | M. TAKAHASHI | 10/823,618 | 14-Apr-04 | 20-Jul-04 | 015586/0844 |
| 500.43776CX1 | M. TAKAHASHI | 11/196,418 | 4-Aug-05 | 20-Jul-04 | 015586/0844 |
| 500.43776CX2 | M. TAKAHASHI | 11/526,598 | 26-Sep-06 | 20-Jul-04 | 015586/0844 |
| 500.43776CX3 | M. TAKAHASHI | 11/898,945 | 18-Sep-07 | 20-Jul-04 | 015586/0844 |
| 500.43776CX4 | M. TAKAHASHI | 11/907,643 | 16-Oct-07 | 20-Jul-04 | 015586/0844 |
| 500.43792X00 | S. MORITA | 10/827,325 | 20-Apr-04 | 20-Jul-04 | 015586/0846 |
| 500.43792CX1 | S. MORITA | 11/490,100 | 21-Jul-06 | 20-Jul-04 | 015586/0846 |
| 500.43792CX2 | S. MORITA | 11/717,020 | 13-Mar-07 | 20-Jul-04 | 015586/0846 |
| 500.43792CX3 | S. MORITA | 12/254,453 | 20-Oct-08 | 20-Jul-04 | 015586/0846 |
| 1309.43818X00 | K. YAMAGAMI | 10/834,989 | 30-Арг-04 | 20-Jul-04 | 015588/0263 |
| 1309.43818CX1 | K. YAMAGAMI | 11/448,870 | 8-Jun-06 | 20-Jul-04 | 015588/0263 |
| 1309.43818CX2 | K. YAMAGAMI | 11/976,483 | 25-Oct-07 | 20-Jul-04 | 015588/0263 |
| 1309.43818CX3 | K. YAMAGAMI | 12/467,597 - | 18-May-09 | 20-Jul-04 | 015588/0263 |
| 566.43908X00 | Y. EGUCHI | 10/855,356 | 28-May-04 | 30-Jul-04 | 015637/0836 |
| 566.43908CX1 | Y. EGUCHI | 11/032,172 | 11-Jan-05 | 30-Jul-04 | 015637/0836 |
| 566.43908CX2 | Y. EGUCHI | 11/594,787 | 9-Nov-06 | 30-Jul-04 | 015637/0836 |
| 274.43166X00 | A. FUJIBAYASHI | 10/788,390 | 1-Mar-04 | 1-Mar-04 | 015032/0742 |
| 274.43166CX1 | A. FUJIBAYASHI | 11/592,981 | 6-Nov-06 | 1-Mar-04 | 015032/0742 |
| 274.43166CX2 | A. FUJIBAYASHI | 11/987,152 | 28-Nov-07 | 1-Mar-04 | 015032/0742 |
| 274.43167X00 | A. FUJIBAYASHI | 10/784,994 | 25-Feb-04 | 25-Feb-04 | 015024/0618 |
| 274.43167CX1 | A. FUJIBAYASHI | 11/526,579 | 26-Sep-06 | 25-Feb-04 | 015024/0618 |
| 274.43168X00 | A. FUJIBAYASHI | 10/784,260 | 24-Feb-04 | 24-Feb-04 | 015019/0623 |
| 274.43168CX1 | A. FUJIBAYASHI | 11/360,470 | 24-Feb-06 | 24-Feb-04 | 015019/0623 |
| 274.43168CX2 | A. FUJIBAYASHI | 11/545,562 | 11-Oct-06 | 24-Feb-04 | 015019/0623 |
| 274.43168CX3 | A. FUJIBAYASHI | 11/882,911 | 7-Aug-07 | 24-Feb-04 | 015019/0623 |
| 274.43168CX4 | A. FUJIBAYASHI | 12/463,779 | 11-May-09 | 24-Feb-04 | 015019/0623 |
| 274.43199X00 | T. AMANO | 10/823,619 | 14-Apr-04 | 27-Aug-04 | 015738/0247 |
| 274.43199CX1 | T. AMANO | 11/640,933 | 19-Dec-06 | 27-Aug-04 | 015738/0247 |
| 274.43202X00 | S. KODAMA | 10/802,853 | 18-Mar-04 | 18-Mar-04 | 015122/0155 |
| 274.43266X00 | A. YAMAMOTO | 09/829,470 | 9-Apr-01 | 10-May-01 | 011793/0373 |
| 274.43266PX1 | A. YAMAMOTO | 10/688,277 | 17-Oct-03 | 10-May-01 | 011793/0373 |
| 274.43266CX2 | A. YAMAMOTO | 10/801,686 | 17-Mar-04 | 10-May-01 | 011793/0373 |
| 274.43266CX3 | A. YAMAMOTO | 10/801,685 | 17-Mar-04 | 10-May-01 | 011793/0373 |
| 274.43266CX4 | A. YAMAMOTO | 10/883,743 | 6-Jul-04 | 10-May-01 | 011793/0373 |
| 274.43266CX5 | A. YAMAMOTO | 11/360,471 | 24-Feb-06 | 10-May-01 | 011793/0373 |
| 274.43266CP6 | A. YAMAMOTO | 11/637,063 | 12-Dec-06 | 10-May-01 | 011793/0373 |
| 274.43266CP7 | A. YAMAMOTO | 12/155,965 | 12-Jun-08 | 10-May-01 | 011793/0373 |
| 274.43686X00 | Y. KANO | 10/867,657 | 16-Jun-04 | 16-Jun-04 | 015485/0263 |
| 274.43686CX1 | Y. KANO | 11/319,609 | 29-Dec-05 | 16-Jun-04 | 015485/0263 |